What is claimed is:

- 1 1. A liquid crystal display (LCD) device comprising:
- first and second substrates;
- a thin film transistor (TFT) formed in a predetermined
- 4 region on the first substrate;
- a pixel electrode formed in a pixel region on the first
- 6 substrate;
- a color filter layer formed on the pixel electrode;
- a black matrix pattern formed in a region other than
- 9 the pixel electrode; and
- a liquid crystal layer formed between the first and
- 11 second substrates.
 - 1 2. The LCD device of claim 1, further comprising a common
 - 2 electrode formed on the second substrate.
 - 1 3. The LCD device of claim 1, wherein the black matrix
 - 2 pattern is Benzocyclobutene (BCB).
 - 1 4. The LCD device of claim 1, wherein the TFT is formed in
 - 2 a crossing region between a gate line and a data line on the
 - 3 first substrate.
 - 1 5. The LCD device of claim 4, further comprising a
 - 2 connecting pattern which electrically connects a drain

- 3 electrode of the TFT with the data line.
- 1 6. The LCD device of claim 5, wherein the connecting
- 2 pattern is removed after the color filter layer is formed.
- 1 7. The LCD device of claim 5, wherein the connecting
- 2 pattern passes above the gate line.
- 1 8. The LCD device of claim 5, wherein the connecting
- 2 pattern forms a single body with the data line and the drain
- 3 electrode.
- 1 9. The LCD device of claim 1, wherein the black matrix
- 2 pattern is used as a passivation film.
- 1 10. A method for manufacturing a liquid crystal display
- 2 (LCD) device having a pixel region defined by gate and data
- 3 lines, the method comprising:
- forming a thin film transistor (TFT) on a first
- 5 substrate;
- forming a black matrix pattern in a region other than
- 7 the pixel region;
- forming a pixel electrode in the pixel region; and
- forming a color filter layer on the pixel electrode.
- 1 11. The method of claim 10, further comprising:

- forming a common electrode on a second substrate
- 3 opposite to the first substrate; and
- forming a liquid crystal layer between the first and
- 5 second substrates.
- 1 12. The method of claim 10, wherein forming the TFT
- 2 includes:
- forming a gate electrode on the first substrate;
- 4 sequentially depositing a gate insulating film, an a-Si
- 5 layer, an n+ layer, and a metal layer on an entire surface
- 6 including the gate electrode;
- 7 patterning the metal layer and the n+ layer;
- 8 selectively removing the patterned metal layer to form
- 9 source and drain electrodes; and
- 10 removing the n+ layer between the source and drain
- 11 electrodes and the gate insulating film in a pad region.
 - 1 13. The method of claim 12, wherein the a-Si layer of the
 - 2 pixel region is removed when the black matrix pattern is
 - 3 formed.
 - 1 14. The method of claim 10, wherein the black matrix
 - 2 pattern is Benzocyclobutene (BCB).
 - 1 15. The method of claim 14, wherein the black matrix
 - 2 pattern is used as a passivation film.

- 1 16. The method of claim 10, further comprising:
- 2 removing the black matrix pattern in a pad region after
- 3 forming the color filter layer; and
- forming a binder on the color filter layer and the
- 5 black matrix pattern.
- 1 17. A method for manufacturing a liquid crystal display
- 2 (LCD) device having a pixel region defined by gate and data
- 3 lines, the method comprising:
- forming a thin film transistor (TFT) on a first
- 5 substrate;
- forming a pixel electrode in the pixel region;
- forming a black matrix pattern in a region other than
- 8 the pixel electrode; and
- forming a color filter layer on the pixel electrode.
- 1 18. The method of claim 17, wherein forming the TFT
- 2 includes the steps of:
- forming a gate electrode on the first substrate;
- depositing a gate insulating film, an a-Si layer, an n+
- 5 layer, and a metal layer on an entire surface including the
- 6 gate electrode;
- 7 patterning the metal layer, the n+ layer, and the a-Si
- 8 layer;
- 9 selectively removing the patterned metal layer to form

- 10 source and drain electrodes; and
- 11 removing the n+ layer between the source and drain
- 12 electrodes and the gate insulating film in a pad region.
 - 1 19. The method of claim 17, further comprising the steps
 - 2 of:
 - forming a common electrode on a second substrate
 - 4 opposite to the first substrate; and
 - forming a liquid crystal layer between the first and
 - 6 second substrates.
 - 1 20. The method of claim 17, wherein the black matrix
 - 2 pattern is Benzocyclobutene (BCB).
- 1 21. The method of claim 20, wherein the black matrix
- 2 pattern is used as a passivation film.
- 1 22. The method of claim 17, further comprising:
- 2 removing the black matrix pattern in a pad region after
- 3 forming the color filter layer; and
- forming a binder on the color filter layer and the
- 5 black matrix pattern.
- 1 23. A method for manufacturing a liquid crystal display
- 2 (LCD) device having a pixel region defined by gate and data
- 3 lines, the method comprising:

- 4 forming a thin film transistor (TFT) and a connecting
- 5 pattern on a first substrate, the connecting pattern
- 6 connecting a drain electrode of the TFT with one of the data
- 7 lines;
- 8 forming a pixel electrode connected with the drain
- 9 electrode;
- 10 forming a black matrix pattern in a region other than
- 11 the pixel region;
- forming a color filter layer on the pixel electrode;
- 13 and
- forming a liquid crystal layer between the first
- 15 substrate and a second substrate opposite to the first
- 16 substrate.
 - 1 24. The method of claim 23, wherein forming the TFT and the
 - 2 connecting pattern includes:
 - forming a gate electrode on the first substrate;
 - 4 depositing a gate insulating film, an a-Si layer, an n+
 - 5 layer, and a metal layer on an entire surface including the
 - 6 gate electrode;
 - 7 patterning the metal layer and the n+ layer;
 - 8 selectively removing the patterned metal layer to form
 - 9 source and drain electrodes; and
- 10 removing the n+ layer between the source and drain
- 11 electrodes and the gate insulating film in a pad region.

- 1 25. The method of claim 24, wherein the connecting pattern
- 2 is formed to connect the data line with the drain electrode
- 3 in a bypass way when the metal layer and the n+ layer are
- 4 etched.
- 1 26. The method of claim 23, wherein forming the color
- 2 filter layer includes electrodepositing a color filter
- 3 material on the pixel electrode in a state that a voltage is
- 4 applied to the data line.
- 1 27. The method of claim 26, further comprising:
- 2 removing the black matrix pattern in a pad region; and
- 3 forming a binder on the black matrix pattern and the
- 4 color filter layer.
- 1 28. The method of claim 23, wherein the black matrix
- 2 pattern is patterned to exposed the connecting pattern.
- 1 29. The method of claim 28, wherein the connecting pattern
- 2 is removed after forming the color filter layer.
- 1 30. The method of claim 23, wherein the step a) includes:
- forming a gate electrode on the first substrate;
- depositing a gate insulating film, an a-Si layer, an n+
- 4 layer, and a metal layer on an entire surface including the
- 5 gate electrode;

- 6 patterning the metal layer, the n+ layer, and the a-Si
- 7 layer;
- 8 selectively removing the patterned metal layer to form
- 9 source and drain electrodes; and
- removing the n+ layer between the source and drain
- 11 electrodes and the gate insulating film in a pad region.
 - 1 31. The method of claim 30, wherein the connecting pattern
 - 2 is formed when the metal layer, the n+ layer and the a-Si
 - 3 layer are etched.